

AMENDMENTS TO THE CLAIMS

Claims 1-17 (canceled)

Claim 18 (currently amended) A conductive-contact holder that accommodates at least a signal conductive-contact that is a conductive contact for performing input and output of a signal for a predetermined circuit configuration and a ground conductive-contact that is a conductive contact for supplying a ground potential to the predetermined circuit configuration, the conductive-contact holder comprising:

a holder base that is formed of a conductive material, the holder base including

a first opening for accommodating the signal conductive-contact;

and

a second opening for accommodating the ground conductive-contact while maintaining an electrical connection with the ground conductive-contact; and

an insulating member that covers an inner surface of the first opening,

wherein the ground conductive-contact includes a needle member which electrically contacts with the circuit configuration, and an elastic member which applies a pressing force to the needle member to project the needle member outward from the second opening while allowing the needle member to freely move along an axial line of the second opening, the elastic member being configured to contact with an inner surface of the second opening by being compressed when the circuit configuration is connected to the conductive-contact holder.

Claim 19 (previously presented) The conductive-contact holder according to claim 18, further comprising:

a conductive pipe member disposed in the first opening so that an inner surface of the conductive pipe member is in contact with the ground conductive-contact.

Claim 20 (previously presented) The conductive-contact holder according to claim 18, wherein

the holder base is formed of a material conforming to a thermal expansion coefficient of the predetermined circuit configuration.

Claim 21 (previously presented) The conductive-contact holder according to claim 18, wherein

the holder base further includes

a third opening for accommodating a power-supply conductive-contact that supplies a power to the predetermined circuit configuration; and

an insulating member that covers an inner surface of the third opening.

Claim 22 (withdrawn) The conductive-contact holder according to claim 18, wherein

the holder base further includes

a first substrate that is formed of a conductive material, the first substrate including

a fourth opening corresponding to the first opening; and

a fifth opening corresponding to the second opening; and

a second substrate that is formed of a conductive material, the second substrate including

a sixth opening corresponding to the first opening; and

a seventh opening corresponding to the second opening,

the second substrate is fixed to the first substrate so that the sixth opening communicates with the fourth opening and the seventh opening communicates with the fifth opening, and

the insulating member includes

a first insulating pipe member inserted into the fourth opening; and

a second insulating pipe member inserted into the sixth opening.

Claim 23 (withdrawn) The conductive-contact holder according to claim 22, wherein

the first insulating pipe member includes an anti-slip flange formed in one end thereof,

the second insulating pipe member includes an anti-slip flange formed in one end thereof, and

the first insulating pipe member is inserted into the fourth opening and the second insulating pipe member is inserted into the sixth opening so that the anti-slip flanges are positioned on the side of a boundary between the first substrate and the second substrate.

Claim 24 (withdrawn) The conductive-contact holder according to claim 22, further comprising:

a first conductive pipe member that includes an anti-slip flange formed in one end thereof, and is inserted into the fifth opening so that the anti-slip flange is positioned on the side of a boundary between the first substrate and the second substrate; and

a second conductive pipe member that includes an anti-slip flange formed in one end thereof, and is inserted into the seventh opening so that the anti-slip flange is positioned on the side of the boundary between the first substrate and the second substrate.

Claim 25 (withdrawn) The conductive-contact holder according to claim 24, wherein

the first conductive pipe member has an outer shape different from that of the first insulating pipe member, and

the second conductive pipe member has an outer shape different from that of the second insulating pipe member.

Claim 26 (withdrawn) The conductive-contact holder according to claim 25,
wherein

the first conductive pipe member has an outer diameter larger than that of
the first insulating pipe member, and

the second conductive pipe member has an outer diameter larger than
that of the second insulating pipe member.

Claim 27 (withdrawn) The conductive-contact holder according to claim 25,
wherein

the anti-slip flange of the first conductive pipe member has an outer
diameter larger than that of the anti-slip flange of the first insulating pipe member, and

the anti-slip flange of the second conductive pipe member has an outer
diameter larger than that of the anti-slip flange of the second insulating pipe member.

Claim 28 (withdrawn) The conductive-contact holder according to claim 25,
wherein

the anti-slip flange of the first conductive pipe member has a length in an
insertion direction of the first conductive pipe member longer than that in an insertion
direction of the first insulating pipe member, and

the anti-slip flange of the second conductive pipe member has a length in
an insertion direction of the second conductive pipe member longer than that in an
insertion direction of the second insulating pipe member.

Claim 29 (withdrawn) A conductive-contact holder that accommodates at least a
signal conductive-contact that is a conductive contact for performing input and output of
a signal for a predetermined circuit configuration, the conductive-contact holder
comprising:

a holder base that includes an opening for accommodating the signal
conductive-contact; and

an impedance correcting member that is formed of an dielectric material
and is formed to be positioned along an outer periphery of the signal conductive-contact

while the signal conductive-contact is accommodated in the opening, and that corrects an intrinsic impedance of the signal conductive-contact.

Claim 30 (withdrawn) The conductive-contact holder according to claim 29, wherein

the signal conductive-contact is in a cylindrical shape with a predetermined outer diameter, and

the impedance correcting member is in a tubular shape and coaxial with the signal conductive-contact, and corrects the intrinsic impedance by adjusting an outer diameter of the tubular shape and the dielectric constant of the dielectric material.

Claim 31 (withdrawn) The conductive-contact holder according to claim 29, wherein

the holder base is electrically conductive.

Claim 32 (withdrawn) The conductive-contact holder according to claim 29, wherein

the holder base is formed of a material conforming to a thermal expansion coefficient of the predetermined circuit configuration.

Claim 33 (withdrawn) The conductive-contact holder according to claim 29, wherein

the holder base further includes

a third opening for accommodating a power-supply conductive-contact that supplies a power to the predetermined circuit configuration; and

an insulating member that covers an inner surface of the third opening.

Claim 34 (currently amended) A conductive-contact unit comprising:

a signal conductive-contact for performing input and output of a signal for a predetermined circuit configuration;

a ground conductive-contact for supplying a ground potential to the predetermined circuit configuration;

a conductive-contact holder including

a holder base that is formed of a conductive material, the holder base including

a first opening for accommodating the signal conductive-contact;

and

a second opening for accommodating the ground conductive-contact while maintaining an electrical connection with the ground conductive-contact;

and

an insulating member that covers an inner surface of the first opening; and

a circuit board including

a circuit that is electrically connected to at least the signal conductive-contact and generates a signal to be input to the predetermined circuit configuration,

wherein the ground conductive-contact includes a needle member which electrically contacts with the circuit configuration, and an elastic member which applies a pressing force to the needle member to project the needle member outward from the second opening while allowing the needle member to freely move along an axial line of the second opening, the elastic member being configured to contact with an inner surface of the second opening by being compressed when the circuit configuration is connected to the conductive-contact holder.

Claim 35 (previously presented) The conductive-contact unit according to claim 34, wherein

the signal conductive-contact is in a cylindrical shape with a predetermined outer diameter, and

the insulating member is in a tubular shape and coaxial with the signal conductive-contact, and corrects an intrinsic impedance of the signal conductive-

contact by adjusting an outer diameter of the tubular shape and the dielectric constant of the dielectric material.

Claim 36 (previously presented) The conductive-contact unit according to claim 34, further comprising:

- a ground-potential supply unit that supplies a ground potential; and
- a connecting unit that electrically connects the holder base and the ground-potential supply unit.